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皓宇(香港)公司 HAOYU (HONG KONG) LIMITED	产品规格书	版本 Rev.	А								
	Droduct 页次 Sheet 1/7										
1. 范围 Scope											
该标准涵盖皓宇(香港)公司制造中心生产的USB C TYPE连接器之功能要求及测试方法。 This specification covers the requirements for product performance and test methods of HAOYU(HONG KONG) LIMITED Manufacturing Center's USB C TYPE plug and receptacle Connectors.											
2. 标准文件 Related Standards											
2-1 IEC512 2-2 MIL-STD 202 2-3 EIA-364											
4-2温度范围:+ 15℃+ 35℃ Temperature range : +15℃ to +3	ON 条件,除非另有说明。 ellow conditions unless otherwise specified.										
4-3 湿度范围:25% - 85% Humidity range: 25% to 85%											

	户(香港)公司 J(HONG KONG)LIMITED	产品规格书 Product	文件编号 Doc. No.SPEC-USB-001版本 Rev.A页次 Sheet2/7
5. 产品	外观 PRODUCT AI	PPEARANCE	
项目 ITEM	描述 Description	测试方法 Test Methods	测试规格 Test Specification
	产品外观	依据 EIA364-18 测试 肉眼观察, 产品外形必须符合图纸要求。	产品外观良好,无外观不良情 形,产品结构及尺寸须符合图纸设 计要求。
5-1	Examination of Product Appearance	EIA364-18 Shall be confirmed with eyes in accordance with each drawing.	Outward appearance shall be good without such injurious problem and structure shall be meet the design and dimension requirement of drawing
6. 机械	社能 MECHANICAL	PERFORMANCE	
项目 ITEM	描述 Description	测试方法 Test Methods	测试规格 Test Specification
6-1	插入力 Insertion force	依据 EIA 364-13 测试方式,操作速度 12.5mm /min. EIA 364-13 Measure force at maximum rate of 12.5mm (0.492") per minute	插拔力的范围: 5N-20 N The connector insertion force shall be the range from 5N to 20N
6-2	拔出力 Extraction force	依据EIA 364-13测试方式,测量力 的速度达到最大12.5 mm/min. EIA 364-13 Measure force at maximum rate of 12.5mm(0.492") per minute	拔出力的范围: 8N-20 N The connector extraction force shall be the range from 8N to 20N
6-3	耐插拔 Durability	依据EIA 364-09测试方式 插拔10000次循环,手动插拔速度 200周期/小时.	必须满足以下条件后循环测试完成后: 接触电阻(40 mΩ,变化量10 mΩ(Max)后 测试) 插入力(5到20N) 拔出力(8到20 N) 产品外观符合需求, 无破损及外形损伤。

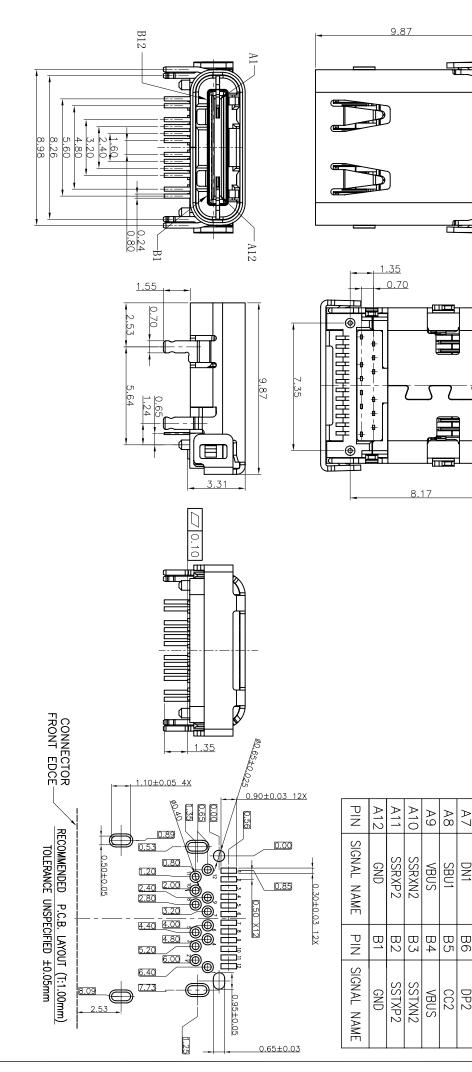
	z(香港)公司 (HONG KONG) LIMITED	产品规格书 Product	文件编号 Doc. No.SPEC-USB-001版本 Rev.A页次 Sheet3/7
		EIA 364-09 Type C :10000 cycles cycle rate of 200cycles per hour manually.	 Must meet the following criteria after the cycle test is completed: Contact resistance (40m Ω , delta 10m Ω (Max) after test) Insertion force (5N to 20N) Extraction force (8N to 20N) Visual inspection (no exposed base metal on contacts)
6-4	Cable 摇摆弯曲 Cable Flexing	依据 EIA 364-41 测试方式 电缆组件与尺寸 X =电缆外径 3.7,并 在两个平面 120 度来回 100 个循环。	弯曲过程中没有物理损坏或不连续 1ms 以上应发生在
		EIA 364-41 100 cycles in each of 2 planes 120 degree. Dimension x=3.7x cable diameter	No discontinuity over 1 microsecond During flexing or physical damage allowed
6-5	Cable 负重测试 Cable Pull-Out	依据 EIA-364-38 测试方式 经受 40 N 轴向负荷为最小为 1 分钟	组件没有损伤和物理损坏
		EIA-364-38 40N steady state axial load for 1 minute	No discontinuity or physical damage allowed
6-6	四轴向测试 4-axes continuity test	8N 拉力一段 10 秒钟;标本必须服从 0°、90°、180°、270°四个方向。	组件没有间断大于 lus,没有物理损害
		8N tensile force for a period of 10 seconds Min; The specimen must subject to 0° , 90° , 180° , 270° direction.	No discontinuity greater than 1us and no physical damage to the specimen(one cable per test)
		EIA364-18 105° C without applied voltage for 120 hours. 105° C without applied voltage for 72 hours when used as preconditioning in EIA 364-1000.01	Visual inspection,Test shall be done in sequences defined in EIA364-1000.01

	产(香港)公司 (HONG KONG)LIMITED	产品规格书 Product		文件编号 Doc. No. 版本 Rev. 页次 Sheet	SPEC-USB-001 A 4/7		
7. 电气	特性 ELECTRICAL	PERFORMANCE		·			
项目 ITEM	描述 Description	测试方法 Test Methods		测试规格 Test Specification			
7-1	绝缘阻抗 Insulation Resistance	依据 EIA 364-21C测试方式 加100V DC的电压于相邻两端子之间. EIA 364-21C Unmated connectors, apply 100Volts DC between adjacent terminal or ground.	100N	配和配对连接 ΔΩ绝缘电阻 MΩminimum(ui cent contacts a	相邻触点间最低 nmated)between and contacts and nell		
7-2	低电接触电阻 Low Level Contact Resistance	依据 EIA 364-23b 测试方式 一组对插好的连接器; 测试开路电压:20mV max.; 测试短路电流: 100m A max EIA 364-23b 20mV Max. open circuit at 100mA Max.	mΩ(40m	Max)) Ω(Max) initial f acts and all oth	l试后变化量10 for VBUS and GND ner contacts; delta x) after test		
7-3	耐电压 Dielectric withstanding Voltage	依据 EIA 364-20测试方式 加100V AC的电压于相邻两端子之间 1分钟. EIA 364-20 Subjected to 100VAC (RMS) for 1 minute between adjacent terminals.	无击 Ther	eakdown			
	接触额定电流	5.0 A的电流应被共同施加到VBUS引 脚和1.25 A通过相应的GND施加到 VCONN引脚与返回路径引脚。 0.25 A的最小电流也应分别适用于所有的 其它端子。	超过 ℃的	当电流被施加到触点上,温度上升 超过30℃的USB型-C下测试,当在2 ℃的环境温度下测得的配套插头和排 座的任何点			
7-4	Contact current rating	EIA364-70 5.0A shall be applied collectively to VBUS pins and 1.25 A applied to the VCONN pin and 0.25 A the other contacts.	conta not e USB rece	When the currents are applied to th contacts, the temperature rise shall not exceed 30 °C at any point on th USB Type-C mated plug and receptacle under test, when measu at an ambient temperature of 25 °C			

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8. 环境	時性 ENVIROME	NT PERFORMACE				
项目 ITEM	描述 Description	测试方法 Test Methods	7	测试规格 Test Specification		
	溫度老化測試	依据EIA 364-17测试方式 温度寿命试验的温度和持续时间 105℃下 120 / 温度寿命试验的温度和持续时间对预处理 105° 72 小时	▶时 外观: 〕	-		
8-1	Temperature Life	EIA 364-17 105° C without applied voltage for 120 hours. 105° C without applied voltage for 72 hours when used as preconditioning in EIA 364-1000.01.	done in	Visual inspection, Test shall done in sequences defined EIA 364-1000.01. 外观没有损害 There shall be no evidence		
8-2	冷熱衝擊測試 Thermal Shock	依据EIA 364-32方式测试 10 个周期-55℃+ -55℃。USB 3.0 必须对插配合 测试 EIA 364-32 10 Cycles - 55℃ and +85℃. The USB 3.0 connectors under test must be mated.	异下 There s			
		MIL-STD-202F 101d 条件B测试 对插产品测试环境: 温度: 35±2℃, 盐 水浓度:重量比5±1%, 时间: 48小时. 测试后常温水洗,干燥.	损害。 2)要满	满足视觉要求,没有物 足的要求,额外的测i 在第五节测		
8-3	盐水喷雾 Salt Spray	対插产品测试环境: 温度: 35±2℃, 盐 水浓度:重量比5±1%, 时间: 48小时. 测试后常温水洗,干燥.损害。 2) 要满足的要求, 额 中指定在第五节测盐水喷雾 Salt SprayMIL-STD-202F, Method 101D, Test Condition B Subject mated connectors to 48 hours at 35 ℃ with 5%-Salt-solution concentration.1).Shall meet visual requirement, show no damage. 2).Shall meet requirem additional tests as spece	nent, show no physical meet requirements of			
	恒温恒湿	依据 EIA 364-31方式测试 周期 25℃士 3℃之间对插产品在 80%士 3% ¾ 和 65℃士 3℃温度 50%士 3% 湿度,时间应 0.5 时和停顿时间 0.5 小时。24 个周期	湿度 ;小 目视检 完成	查,测试应在序列中定 4 - 1000.01		

皓宇(香港)公司	│ │ 产品规格书	文件编号 Doc. No. 版本	SPEC-USB-001								
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 3. 等级 Rating 3-1额定: 3A 30VAC/DC max Rated: 3A 30VAC/DC max 3-2温度范围:存储:-20℃+60℃ Temperature Range: storage: -2 工作:-30℃+80℃; operating: -30℃ to +80℃; A义: :+20℃ Nominal: +20℃ 4. 测试要求 Test Conditi 4-1所有的测试应当执行详见下表 All tests shall be performed as b 	on										
 4-2温度范围:+ 15℃+ 35℃ Temperature range : +15℃ to +35℃ 4-3 湿度范围:25% - 85% Humidity range: 25% to 85% 											

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		CHK'D						1	LCP	HOUSING	1
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TOLERANCE TOLERANCE Image: I		DRWG NO .:	UNIT : mm		_ 4	••		1	STAINLESS STEEL	SPRING	4
	APPD.	PTIONS OF REVISION	DESCRI	DATE	ISSUE	1.5mm : ±0.2mm	Ni-Plating	1	STAINLESS STEEL	SHELL	J
TOLERANCE UNLESS SPECIFIED											6
TOLERANCE						UNLESS SPECIFIED					7
						TOLERANCE					8



A1 GND B12 GND A2 SSTXP1 B11 SSRXP1 A3 SSTXN1 B10 SSRXN1 A4 VBUS B9 VBUS A5 CC1 B8 SBU2 A6 DP1 B7 DN2 A7 DN1 B6 DP2 A8 SBU1 B5 CC2 A8 SBU1 B5 CC2 A9 VBUS B4 VBUS A10 SSRXN2 B3 SSTXN2 A11 SSRXP2 B2 SSTXN2 A12 GND B1 GND A12 SIGNAL NAME PIN SIGNAL NAME													
B12 GN B11 SSR B10 SSR B2 VB B7 DN B5 CC B4 VB B3 SST B4 VB B4 VB B4 VB B4 VB B1 GN	DZ	A12	A11	A10	A9	A8	LΥ	A6	A5	A4	АЗ	A2	١۲
SIGNAL SIGNAL	SIGNAL NAME	GND	SSRXP2	SSRXN2	VBUS	SBU1	DN1	DP1	CC1	VBUS	SSTXN1	SSTXP1	GND
	DZ	B1	B2	B3	Β4	B5	B6	B7	B8	B9	B10	B11	B12
		GND	SSTXP2	SSTXN2	VBUS	CC2	DP2	DN2	SBU2	VBUS	SSRXN1	SSRXP1	GND

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